A foort Accompt of the first Motives and Reasons for the Milld Lead Sheathing, its Brown Irons, provid to be False and Groundless, upon old Evidence newly produced and never of the Admiralty against it upon that account only, which Reply was Pen'd by Secretary in the the Tear 1691 for publick Satisfaction, and several Papers since, Published by Mr. ing the Goodness of their Sheathing against the Idle Stories of the Shipwrights and their Frien view'd, and the Truth appear to all the World; but none ever Answer'd, as well knowing we

THE Sheathing our Ships with Deal-Boards against the World; but none ever Asserd, as well morning the Seams, hinderance to Sailing by its thickness and greater fouling, dearness to Owners as Worm to feed on for a Voyage or cometimes two) and also from the great loss to the Public this Service, as well asothers, lay a Drugg in our own Mines.

These Considerations put the Inventors upon the Thoughts of Improving our Sheet-Lead had been us'd, Ships; this way of Milling rendring the Sheet more loile, smooth and exactly equal, which on, (which Iron, daily Euperience shew'd us would quickly eat its head through, tho' the Shipwing mix'd Mettle for their Nails, which they found was free from Corrosion and everywise agreeab Cast in Sand) not easily drawn, when once driven, and driving them an Inch and half distance, and could not touch, it must answer all the ends of Sheathing, without any of the Evils the other was a that were Sheathed therewith, and half a Score Merchant. Men since, to the great Satisfaction of Prejudice and private Interest does by powerful Enemies in Post Obstruct its Progress.

This Invention being propos'd to King Charles II who was well known to have great Judgment and and was very impatient till the thing was put in Practice in his Navy, which was begun in the Year 16 in the Home, and themselves at length fully satisfy'd therein, and approving of its Excellency in prefers into a Contract with them for 20 yea s to come, to secure the Benefit thereof to His Majesty at the Rate that they did it **Opons fulle in the Sheathing had now been Establish' at the Navy, and all furthers the Kings Work, feating (as they had reason) that this Peamble and Contract would soon bring the Lead-Sheathing that they did it **Opons fulle in Trade lay began to spread shausements, that a new Discovery had been made, the and Decay the Bolts and Ruddar-Irons, which sometime afterwards those Commissioners of the Navy seem 'do never saw the like before upon any other Ship, boldly afferting it must be from the Lead-Sheathing had fully Satisfied them, but it feems it did not.

For that no notice being taken thereof, and this Suggestion of the Lead-Sheathings eating of the Ruddar mongst other expedients to find out the truth thereof, and to prevent the ill Consequents if any truth were inlit, as in of the Admiralty) as a most certain way to discover the Truth in this matter; That if they pleas d to Order an Account of the Admiralty) as a most certain way to discover the Truth in this matter; That if they pleas'd to Order an According of the Admiralty) as a most certain way to discover the Truth in this matter; That if they pleas'd to Order an According of the King's Ships from the time of their beginning to Sheath with Lead; and if it did not app with another, they would give up the Cause, which could not reasonably be refus'd, and was agreed to, as a certain their Orders to the several Yards accordingly, as in pag. 33, and which fairly tried must then have determined the Matters of the Admiralty in the K. above a Hundred thousand Pounds in the Navy, and the Kingdom above a Million in their Pockets long as Lords of the Admiralty in 1682, under pretence of Care, totally to lay aside the further use thereof in the Navy But this sirst Return which was made from Debsford Yard appearing too full of variety and different duration to a Copy thereof was obtain'd, and is here Printed; which if disown d, the Dates may still direct the Store-Reput Now this Suggestion of the Lead-Sheathings eating the Ruddar-Irons is by this Return from Debsford Yard along the variety of Causes that are from wishows (the Water being common to all) they must from each particular kind selves and equal as their Causes from wishows (the Water being common to all) they must from each particular kind selves and equal as their Causes are: But it is apparent from this Accompt of 71 Ships, and known to all that the Cause of this great variety of Dacay happens (Phineles, Guageons, Braces or Bolts) of the same read.

of any one Ship was equal, nor so much as the Members (Pintels, Gudgeons, Braces or Bolts) of the same Rung.

3. Therefore since this great variety of Decays happen where the Causes from without are uniform, equal, and of the Iron it self, and there indeed may be found all the various Causes of these various Essets. The Smuth makes

he mixes and welds together according to his Skill and Honefty; the more he works and with Fire and Hammer Customer will be e're he comes again; But if the Smith were never so Honest and Skilful, it is impossible for him the Barrs themselves, the Mixing, Welding, Fire, and the force and number of Strokes, to be all equal and alike Now fince it appears by the Complaints in the Report it self, that the Decays of the Bolts and Ruddar Irons of it self, some of the Members of the same Ruddar being complain'd of, whilst others remain'd good and service Sheathed. Vid. pag. 23. Therfore Lead-Sheathing is no wise concern'd in the extraordinary Decays of Bolts and And if this of Eating the Bolts and and Ruddar-Irons was the only Cause why Lead-Sheathing was at first land and it is this of Eating the Bolts and and Ruddar-Irons was the only Cause why Lead-Sheathing was at first land and the Stile and groundless, as by this Return from Delitard Vard alone, and the Evidence above draws.

prov'd to be false and groundles, as by this Return from Debtford Yard alone, and the Evidence above drawned to the Navy, unless the private Interest of the Shipwright and those that deal in the Materials of Wood removed by the Navy-Board themselves, upon sufficient Proof and Experience, as above; and to raise any new especially since their Report which was made, after 12 years experience upon 20 Ships mention no other Compowhich certainly they could not then have omitted, if they had any thing Material more to say against it.

And after all, if what they had faid had been true, it had not been worth speaking of, in respect of the vast since the Bolt-heads and Braces may be safely secured by parcelling; and if they will say the Pintels and Gudge at a Breakfast; the shortest time of their lasting upon the Lead-Sheathed Ships complained of, being stated to the same state of the same states are safely sa on Board, as was proposed, there not being wanting an Opportunity by Grounding, or Docking time enc

	An Accompt of	the Decays,	Shifting,	and Repairs of R	ddar-Irons	Returned	to the Navy-Bo
* Pearl.	2 Pintels	10 July 71	Saftle Fire	Ruddar Irons.	2 Sept. 72.	Ho mes.	r pintel.
	Nails and Brads.			Pintels.	1	1	r Rirrup.
	2 pint.mend.&Stra.leng	18		brace.		*Charbam	2 pintels.
	Brace & Pint. mend.	19Nov.75		bolts.		Sloop.	I brace for rudday
	3 New pintels.			gudgeon.	15 Mar. 77	1	3 pintels mended
Francis.	i pint.mend.&rud.Nail.	11 July.		New braces.	,		4 bolts for rudder
	Brade to falt. Rud. Iro.	270tt 71.		Old braces mend.		2 New	4 bolts 2
Garnsey.	5 Bolt. for Rud. & Wale.	16Feb,73		pintels mended.		Sb:llops.	4 bolts for rudden
	pint.&Gudg. mended.			bolts for the rud.	2 c Mar 78	- B. Bops	8 pintels.
	3 New pintels.		donm Yu		26 Aug. 72		4 braces
* Conft.	2 New pint. & 2 bolts.	107an. 71	1.4009	bolts for the rud.			4 gud geons
War.	brads for Rud. Irons.	, , ,	L'alien I	brace for the rud.	13 Nov. 72	Cha. Horfibo	3 Bolts for Rudda
	4 Bolts for the Rudar.	26 Aug. 75.		bolts for the rud.		Vulture	4 Bolts for Rudda
	Fintels.	2 Sept.		New Pintel.		Sloop.	I New Pintel.
	4 Bolts for the Rud.			pintels mended.		Group.	Pintel mended.
*Garland.	Brads for Rud. Irons.	8 7an 71.		pintels.	14 Apr 74		4 Pintels mended.
	4 Pintels mended.	15 Feb.		braces for the rud.	1602.78	Duamana dan	bolts for Rudder
	Brads to fast.Rud. Iro.			bolts for the rud.		Sloop.	I brace
***	Bolt for the Ruddar.	17 Sept 74		pintels.	Fan. 22.	31000	3 pintels.
	3 Bolts for Rud.& Keel	1 Dec.		gudgeon.	7 %	Staund Ca	2 bolts for ruddar
	4 Pintels.	18.		bolts for the rud.		Houna 30	
	2 New braces.			pintels mended.			1 New pitter.
	I brace mended.		Eaglet	New pint & a col.	20 Nov 72		2 polts formadare
Darim.	2 bolts for the Ruddar	177an.71	Ketch.	brace mended.	,,,,,	*Soldados	1 New pinel
	3 bol.for rud.&ring-pla	18 Mar.		plates for ruddar.	La Day 30	307.11.11.05	2 Oldonia
	la bolte for Rudder			New braces.	23 Dec 72		bolts for the same
	3 Pintels Straps length	14 Fano 71.		gudgeon.	-3 200 /2		Oinsels.
*Kath. ya	New pintle.	19 Feb.		bolts for rudder	12741.72		4 pinteles
	3 Old pintels lengthn		1	bolts for Ruddar.	17.		4 bolteard a plate
*	brads to fast. Rud. Iro	1	1	pintels.	1 ''	1 1	A minte a menticular
	4 bolts for Ruddar.	1. Not: 76.	1	brads to fast rud. Ir.		1	2 bolts for suddar
	4 pint. and a gudge or	n	Well Dog.	Strap to rud. Ir.	1 Feb . 73	1	1 brace.
	mended.		Leopard	New pintels.	1 Feb. 73.	Rich Tasch	3 bolts for Ruddar
Perif.	4 Pintels.	25 May 72.	Fire Ship.	bolts for ruddar.	13.	Royal	4 bolts of rudder. 3 pintels. 6 bolts for rudder.
Frig.	Lengthned.	1,,,,	Lilly Dog.	4 pintels mended.	5 Mar. 73	Escape.	a pintels
	2 Gudgeons.		Tulip Dog.	2 plates for ruddar.		william	6 boles for sudder
	Ruddar Nails.	3 Fune.	Hope Gali.	2 Ir. length. for rud	0 1241 . / 2.	Doggar.	2 New place
	New brace for Rud.	12Nov.73		2 bolts for ruddar.	17Mar.73		3 pintels meaded
	5 pint.& 2 braces mend	1.	Fang F.S.	4 Rud.Irons length	1. 8 Mar - 7 3	Adventur	3 pintell aleader
Portf.	4 New pintels.	30May 72.	Alam and	2 pintels.	I 7 Mar 72	1	4 bracks in all
Pink.	New brace.	1	Eve.	3 bolts for Rudda	r. 13		I GUG EUO
*Forefigh		15 Fuly 72.	Marig.F.S.	a bolts for Ruddar	29 Var. 73		2 bolts for seal
v. Pag. 3	3 bolts for Ruddar.	13 Fan. 73.	Quantity C	bolts for Rudda	r.		5 pintes
	5 pintels mended.	19 Aug. 74	Tare Dog	2 bolts for Rudda	1. 5 Apr. 73	1 210	2 bolts or s
	2 bolts for Rud.	1	Fanfan.	New pintel.	18 Apr. 73	162	I brace
* 4nn Y	4 pintels.	17 July 72	1	2 Old pintels men	d.	Crown.	I branch
Ann I	z bolts for the Rudda			6 bolts for Rudda	ur. 1 Aug. 78		GENERAL
	4 pintles.			3 pintels mended.		Fortune	TARKED .
	3 braces.	1	?oterm.dog			Fly-boat	March March Action In the Land
	i Gudgeon.		Kub. F. S	A DESCRIPTION OF THE PROPERTY		1 1 1 9 1	1700
Henviote	a. 2 New pintels.	18 Fuly 72		3 bolts for rud.&f	ca.	Afurano	
	brads to faiten pinte	els. 30 Fan 73	Roe buck.	4 pintels.	15 Apr 73		
Daniel	ru 3 bol.& 2 plat.for Ru	id. 12 Aug 72		3 bolts for Rudo	ar.	1	A STATE OF THE STATE OF
- 0 Sb l			11	3 bra. & stir.mend		- Comment	A PROPERTY OF STREET

The Certificates abovementioned and other Evidence, with a particular Account of the what Artifice and Interest the Progress thereof has been Obstructed, they may in due time

the Molld Lead Company's Reply to the late Navy-Boards Report to the Lords and with the Proceedings relating thereto amongst other chings, printed Merchant-Men into the Dock after their several Voyages perform'd; Assertable of they had any before they went out, while their Sheathings might be at a fair and open Test.

Ill effects, both from the thing it self, (by the damage to the Plank and ge of Graving and short duration, it being only an Entertainment for the purchase that, whilst our Lead which might be improved, much better for

r cast Sheets, between Rollers, down to any degree of Thinnes' required; I was not fit for, as in particular, this (as thin as a Shilling) for Sheathing of a there wanted nothing but a Nairof an agreeable Mettle to fasten this Lead that the Lead eates the Iron) and having upon various Trials fix'd upon a being no damage to the Plank, and by the roughness of the Shank (being amon Sense concluded at first fight, that this being Mettal which the Worm stiff of their expectation by Experience upon 20 Ships of the Royal Navy both before and after their Voyages perform'd, as they have Certify'd; tho'

ily approved thereof, encouraging the Inventors to get an Act of Parliament, that dealt in the Materials of Wood-Sheathing, having raifed-many Oblawfers, and lying on the Ground, &c. the Navy-Board for abundant caused, having Sheathed 10 Ships, within that time, most of which being reserved, in a most solemn Manner, under the Seal of their Office, enter doff their Act of Parliament; Declaring in the Preamble of their Contract, hing and Preserving Ships against the Worm.

And but then it was, that the Shipwrights (who were not much concern d in Merchants, where they Sheath at least 6 or 700 Ships a year, and in which a one Venomous Quality in it, that did in a very extraordinary manner Eat and received Complaints of t at kind from abroad, which might be, and no to take notice to their Commanders of their Ruddar-Irons, (especially if g as others) and pretend that they were more than ordinarily eaten, that he Business, the Captain may at length believe him, and so write home accordant on the same must have appeared to that Navy Board upon an Octors, if no other Evidence had appeared therein, and which they thought

ngth obstinately Espous'd by that Navy-Board, the Milld Lead Company a-a, of their said Reply, offer'd to them (which they had done also to the Lords i from their several Yards, of all the Ruddar-Irons that had been put on, Dethat they had lasted as long upon Lead-Sheathed Ships as the rest, taking one the Dispute; And being pressed therein, they did indeed at length issue out bred the Lead-Sheathing to their deserv'd Approbation as above, when they mough to have discovered this extraordinary Decay of the Iron-work, if there lots have pleaded for their discontinuing it ever since; and thereby have saved ly made out: a much better Service to the Publick, than their Report to the

Suggestion any longer, they concealed it from the Company, pretend-and so all further Enquiry fell; but this Return being afterwards discover d,

e false and groundless, as follows.

pintel mended, & pintel new. intels mended. botts for ruddar. bolts for ruddar. new brace.

new pintels. dwell i new pintel.

pintels mended. New pintels.

pintels mended. bolts for ruddar. A Suit of Rud.Ir. bolts for ruddar: pintels mended. ruddar Irons.

3 bolts for ruddar. 2 bolts for ruddar.

New brace. pintel mended. bolts for ruddar.

gudgeons. braces for ruddar

2 Straps for rud.Ir. Ruddar Nails.

2 pla. & bol. for rud. 11 June 2 pintels.

10.

1 Mar. 70

April.

11 Nov. 7

Fan. 7 27 Aug7

8 May 7

18.

ow together at first.

om without, the Lead-Sheathing, Wood-Sheathing, or no Sheathing being all d Operation upon the Ruddar-Irons, and the Decays be constant to themthat the Decays in the Iron-work of no two Ships of any kind, or even

of the Ruddar-Irons extrordinary Decay must come from within the Body of ton, Sweedish, Spanish and English, in the several Sorts of his Work, which the less Mony (selling all by weight) he receives for it, and the longer his so I Iron-work to be equally Good and Servicable, unless you can suppose much as their difference is, must be the difference in their Duration. hips are very different and various from one another, and each one even from

by this Return they always did upon other Ships whether Sheathed or not than Wood-Sheathing or no Sheathing, which was to be prov'd. been discontinued in the Navy, that Objection being removed and fairly demonstrated to be; what can hinder the Lead-Sheathings being restorperted at so vast a loss to the Publick, all other Objections being totally the old Objections again, would be ridiculous, and deserves no Answer; the old Objections its supposed destructive Quality to the Iron-work

Publick, as well as the small Charge to provide against it; as in pag. 42.

Water are eaten by the Lead-Sheathing, be it so, it does not Eat them up as in pag. 42. it was but having a fresh Sett of Ruddar-Irons ready

for about 8 Tears, by their Order of 27 March 1679,

- 1	pintels.	119 Fan. 73.	1	12 Ditto to fast rud. Ir.	
1	pintels and collar.	14 fan. 73.		3 bolts for ruddar.	9 Aug. 78.
4	bolts for ruddar:	16 fan. 71	sloop.	3 New pintels.	2. 10.
- 1	pintels mended:	/4	Phænix.	I New pintel.	20Nov.78
- 6	brace for ruddar.			4 pintels mended.	
1	6 bolts for ruddar.	24 July 75.	Larke.	4 pitels mended.	1Feb. 77.
1	2 braces mended:		2	3 braces	1. 60. 78.
	4 pintels.			4 bolts for Ruddar.	22 7an.
	7 bolts for ruddar.	27 Feb. 74		4 bolts for Stern p oft.	1
	7 pintels.	27Mar.74	Portf. Tat	2 bolts	
	s braces	,,4		2 plates forRuddar	24 Fan.
	2 gudgeons.			1 ring bolt 5	79.
280	3 pintels.	24 Apr. 74			
1	I brace for ruddar.		71 Ships	Participation of the Control of the	1
	3 bolts for ruddar.	5 Fun. 7.5	in all.	Mark'd * were again Re-	
1	4 pintels mended.	18.		pair'd here.	1
100.	2 Rud. Irons length.	16May 74	11	Para Ja moro	
	2 bolts for ruddar.	3 Sept. 74	1	Weight of the Iron o	
	I brace mended	_ ` ` ` `		mitted, as unnecffary	
	2 pintels mended.		-1	to shew its duration.	1
100	new brace.	1	1	to mew its duration.	l
	4 rud. Irons length.		-		
E	3 pintels	0 Feb. 74	An Aha	rack of the Ruddar-Iron	
teh	2 braces mended.	26Mar.75	Shine	abovementioned, that reta	s of the
	New brace.		Dob	found Yand to be Popular's	rna into
12			Debt	ford Yard to be Repair'd,	mark d .
1	4 bolts for ruddar.		the re	of being supposed to be R	epair d in

the rest being supposed to be Repair d in some other Yard, whereby, however the great Variety of the Rudday Irons Decays may app

ShipsNames	When on,or	men.	Whe	nShift. epair.	of l
Pearl,	fuly	1611	Non	1675	Y:
Conft. War.	Fan:	1641	Sept	1675	
Garland.	Fan.	1641	Dec	1674	3
Kath. Tacht	Febr.	1671	Non	1676	
Portf. Frig.	May	167	Naz	1673	4
*Forefight	fan.	167	Aug	1674	1
Ann Tache	Fuly	167	Non	1676	
Caftle FireS		167	12.67	far.77	
	Copie	,	Apri	1674	5
Drake.	Nov:	167	2 7	1678	1
Fanfan	April	1169	Aug	1678	3
Chath. Sloop	Tune	167	2 74 /4	. 1070	5
	Jame	-01	Jan Jan	1077	4
Soldados	Sept.	167	3 Sept	1675	1
Kitchin Yac	bt an	164	2 74/2	1670	3
Debtf. Ket	ch Apri	1167	1744	1675	
Quaker Ket	ch 26 1	Mary	4 An	:1-6-5	1

August 1674, when her Ruddar-Irons lasted about 5 Years. Vid. Reply. Pag. 31. 36 Iqua. Stap. for rud. the hard Usage of the Inventors from time to time, in favour of its Enemies, and by the Reply for Satisfaction of the Publick, and those that disposeof their own Money.